

STATE OF UTAH FORM 3 DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING AMENDED REPORT (highlight changes) 5. MINERAL LEASE NO: 6. SURFACE: APPLICATION FOR PERMIT TO DRILL ML 47967 State 7. IF INDIAN, ALLOTTEE OR TRIBE NAME: DEEPEN | DRILL 🗸 REENTER 1A. TYPE OF WORK: 8. UNIT or CA AGREEMENT NAME: OIL GAS 🗸 SINGLE ZONE MULTIPLE ZONE B. TYPE OF WELL: OTHER 2. NAME OF OPERATOR: 9. WELL NAME and NUMBER CrownQuest Operating, LLC Dragon State 1-13 10. FIELD AND POOL, OR WILDCAT: 3. ADDRESS OF OPERATOR: PHONE NUMBER: **CITY Farmington** P.O. Box 2221 (505) 325-5750 Wildcat 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 4. LOCATION OF WELL (FOOTAGES NWNE, 13 34S 25E 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 12. COUNTY: 13. STATE **UTAH** 10 miles east of Monticello San Juan 15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 16 NUMBER OF ACRES IN LEASE 666' 680 160 18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR 19. PROPOSED DEPTH: 20. BOND DESCRIPTION: APPLIED FOR) ON THIS LEASE (FEET) 5,960 RLB 0007554 18391 23. ESTIMATED DURATION: 21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 22. APPROXIMATE DATE WORK WILL START: 2/15/2008 60 days 6746' GL PROPOSED CASING AND CEMENTING PROGRAM 24. CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT CASING SIZE, GRADE, AND WEIGHT PER FOOT SETTING DEPTH SIZE OF HOLE H40 16" 48 150 class 'G', 250 sks 1.15 cf/sk 15.8 ppg 13 3/8" 1.75 cf/sk J55 36 65/35 Poz, 550 sks 12.8 ppg 12 1/4" 9 5/8" 2.200 1.15 cf/sk class 'G', 100 sks 15.8 ppg 1.74 cf/sk 7 7/8" 5 1/2" P110 17 5.920 25/75 Poz. 575 sks 11.8 ppg LiteCrete, 300 sks 1.61 cf/sk 12.5 ppg **ATTACHMENTS** 25 VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER COMPLETE DRILLING PLAN FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER **Operations Manager** Robert R. Griffee NAME (PLEASE PRINT) 8/24/2007 DATE SIGNATURE

(This space for State use only)

API NUMBER ASSIGNED: 43-037-31869

APPROVAL:

RECEIVED

AUG 3 1 2007

STATE OF UTAH

- CONFIDENTIAL

FORM 3

					NATURAL RESOURCES _, GAS AND MINING				D REPORT t changes)
		APPLICATION	ON FOR F	PERMIT TO	DRILL		5. MINERAL L ML 4796		6. SURFACE:
1A. TYPE OF WO	rk: C	RILL 🔽 RE	EENTER 🗌	DEEPEN			7. IF INDIAN,	ALLOTTEE OR T	RIBE NAME:
B. TYPE OF WEI	LL: OIL 🗌	GAS 🗹 OT	THER	SINC	GLE ZONE 🗹 MULTIPLE ZON	E	8. UNIT or CA	AGREEMENT N	AME:
2. NAME OF OPE								E and NUMBER:	
3. ADDRESS OF		g, LLC			PHONE NUMBER:		•	State 1-13	
P.O. Box 22		CITY Farming	ton _{STAT}	E NM ZIP 874			Wildcat		
4. LOCATION OF	WELL (FOOTAG	ES) (04	04310X	37.	.827342		11. QTR/QTR MERIDIAN		WNSHIP, RANGE,
AT SURFACE:	BRODUCING ZO	x 693' FWL The H	188090	4 -10	.827343 9-133028		NWNE	13 34S	25E
		ECTION FROM NEARE		<u>'</u>			12. COUNTY:		13. STATE:
	east of Mo						San Jua		UTAH
15. DISTANCE TO	NEAREST PRO	PERTY OR LEASE LINI	E (FEET)	16. NUMBER OF	ACRES IN LEASE:	17. N	UMBER OF ACE	RES ASSIGNED	TO THIS WELL:
666'					680				160
	NEAREST WEL R) ON THIS LEAS	L (DRILLING, COMPLE E (FEET)	TED, OR	19. PROPOSED		l	OND DESCRIPT		
1839'	(SHO)M/MHETH	ER DF, RT, GR, ETC.):		22 ADDDOVIMA	5,960		LB 00075		
6746' GL	(SHOW WHETH	ER DF, RT, GR, ETC.).		2/15/200			days	CATION.	
24.			PROPOSI	ED CASING AI	ND CEMENTING PROGRAM				
SIZE OF HOLE	CASING SIZE	, GRADE, AND WEIGH	T PER FOOT	CEMENT TYPE, QU	ANTITY,	YIELD, AND SU	URRY WEIGHT		
16"	13 3/8"	H40	48	150	class 'G', 250 sks	1.15	cf/sk	15.8 ppg	
12 1/4"	9 5/8"	J55	36	2,200	65/35 Poz, 550 sks	1.75	cf/sk	12.8 ppg	
					class 'G', 100 sks	1.15	cf/sk	15.8 ppg	
7 7/8"	5 1/2"	P110	17	5,920	25/75 Poz, 575 sks	1.74	l cf/sk	11.8 ppg	
					LiteCrete, 300 sks	1.61	cf/sk	12.5 ppg	
25.				ATTA	CHMENTS				
VERIFY THE FOL	LOWING ARE A	TTACHED IN ACCORDA	ANCE WITH THE U	ITAH OIL AND GAS C	ONSERVATION GENERAL RULES:				
✓ WELL PL	AT OR MAP PRE	PARED BY LICENSED	SURVEYOR OR E	NGINEER	COMPLETE DRILLING PLAN				
EVIDENC	CE OF DIVISION	OF WATER RIGHTS AF	PROVAL FOR USE	E OF WATER	FORM 5, IF OPERATOR IS PE	RSON	OR COMPANY	OTHER THAN TH	IE LEASE OWNER
NAME (PLEASE	_{PRINT)} Robe	rt R. Griffee			TITLE Operations M	anag	er		
SIGNATURE	Roll	-R. C.			DATE 8/24/2007				
(This space for Sta	ate use only)								· · · · · · · · · · · · · · · · · · ·
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API NUMBER AS	SIGNED:	13-037-31	Y 44		APPROVAL:				

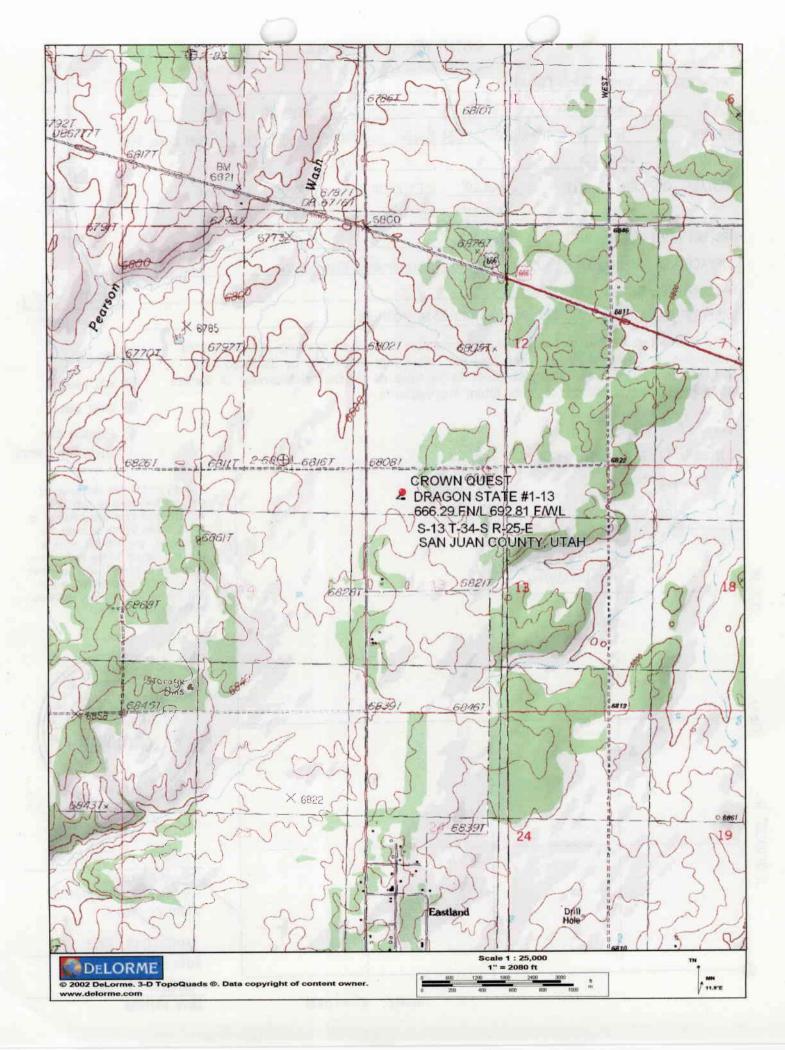
(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

AUG 3 1 2007

UTAH WELL LOCATION PLAT

OPERATOR	Crown Qu	uest Operating					1
LEASE	Dragon S	State			WELL NO.	I – 13	
SECTION _	13	TOWNSHIP	34 South	_RANGE	25 East	Salt Lake,	- Р.М.
COUNTY _	San Juan			_ UTAH			₽
FOOTAGE LO	CATION OF W	ELL: <u>666</u> .	29' FEET FROM	THE	North LINE	and	
		692.	81' FEET FROM	THE	West LINE	and	Ÿ
GROUND LEV	EL ELEVATION	: <u>6745.</u>	90'				_
SURFACE US	SE WITHIN 200	' RADIUS:	No Improvemen	nts Withi	n 200'		_
BASIS OF BE	EARING:	GPS Data		12-			_ 500' 500'
BASIS OF EL	EVATION:	GPS Data —	NAD 83 - PODP	#4			1" = 1000'
Some inform	nation on this	plat is based or	n information take	n from p	orevious surveys	, record	A 810 80
information, complete bo	or collatoral undarv survev	evidence and ma . This plat is no	y not reflect that ot to be relied on	which m	nay be disclosed establishment	d by a	GLO BC
boundaries,	fences, buildir	ngs, or other fut	re improvements.	101 1.10	obtablioni nont	or surface	WELL Location STONE Marked
							ALUMINUM CAP
N 88'40'4	7" E (Field)	2658.01'	•				CALCULATED CORN
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96 99 90 90 90 90 90 90 90 90 90 90 90 90	6.70 	l($-\frac{12}{13}$			I hereby cer well location	tify that the proposed shown on this plat
99	3	[R25E	1		was prepare	ed from field notes of an ey by me or under my
692.81						supervision,	and that the same is rrect to the best of my
	N=3	7.827397 09.133874 NAD83				knowledge o	ind belief, and that there
8,	 			· 		200 feet of	le improvements within this proposed wellhead,
7	!			1		unless note	d otherwise.
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	 	İ				and the same	FESSION
	į						No. 171252 OHN D. WAYNE
				 		13	No. 171252
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				İ		State of	f Utah
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9	1				·	AUGUS	T 20, 2007
			SCALE:	1" = 1	000'	Date Pla	



CONFIDENTIAL

Drilling Plan

Well Name:

Dragon State 1-13

Surface Location:

666' FSL x 693' FWL, Section 13, T34S, R25E

San Juan County, Utah

Target Formation:

Pennsylvanian

Elevation:

6746' GL

Geology:

Formation	Тор	Probable Content	Moderately
Morrison	Surface		110 por lavo
Entrada Ss	1055'	₂₀ potential fresh water	Ruse
Navajo Ss	المين 1235	potential fresh water	Da A how
Chinle Fm	1945	potential fresh water vari-color shale	Saluke O.
Shinarump Ss	2465	gas/water	All a
Moenkopi Fm	2620'	brn-red sltst/sh	
Cutler (top of Permian)	2945'	prpl crs ss/sh; potential fresh water	
Honaker Trail (top of Penn)	4360'	ls; potential gas, brine	
Upper Ismay	5590'	gas/oil/brine	
Desert Creek	5825'	gas/oil/brine	
TD	5960'		

Logging Program: Triple Combo including Induction, Neutron/Density, and Sonic logs from

TD to surface casing shoe.

Clean-out Fluid Program:

Interval	Fluid Type	Weight	Viscosity	Fluid Loss
0'-2200'	fresh water/gel	8.4 ppg	n/a	no control
2200' - 5960'	fresh water/gel/polymer	9.2 ppg	30 - 80 sec	10

Casing Program:

Interval	Hole Diameter	Csg Size	Wt.	Grade Thread
Conductor 0' – 150'	16"	13 3/8"	48 ppf	H40 STC
Surface 0' - 2200'	12 1/4"	9 5/8"	36 ppf	J-55 LTC
Production 0' – 5960'	7 7/8"	5 1/2"	17 ppf	P110 LTC

Tubing Program: 0 - 5800', 2 3/8", 4.7 ppf, J55, EUE



BOPE and Wellhead Specifications and Testing:

For drilling operations from conductor casing shoe to 2200': 13 5/8", 2000 psi, threaded casing head with two 2" outlets. 13 5/8", 2000 psi double gate BOP and 2000 psi choke manifold (see figures 1 and 2). Pressure test conductor casing to 600 psi prior to drilling out of conductor casing shoe. Pressure test BOPE to 2000 psi.

For drilling operations from surface casing shoe to TD (5920'): Cut off 13 5/8" casing and casing head. Install 9 5/8", 3000 psi, SOW casing head. 11", 3000 psi double ram BOP and 3000 psi annular preventor. 3000 psi choke manifold (see figures 3 and 4). Pressure test BOPE to 3000 psi and 9 5/8" surface casing to 3000 psi prior to drilling out of surface casing shoe.

For completion operations: 5 1/2" x 2 3/8", 5000 psi tree assembly. 7 1/16", 5000 psi double gate BOP system. 5000 psi choke manifold (see figures 3 and 4). Pressure test 5 ½" casing to 5000 psi prior to frac'ing. The 5000 psi pressure rating is for possible frac treatment pressures and is far in excess of 3000 psi BOP equipment required to control anticipated formation pressure.

General Operation:

- Actuate pipe rams once each day during clean-out operations. Actuate blind rams once each trip.
- An upper Kelly cock valve, with handle, will be available on the rig floor to fit each drilling string.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in the daily drilling report.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing Program:

13 3/8" Conductor Casing String: Run casing with saw-tooth guide shoe on bottom, insert float valve one joint from bottom, and install 1 bow-spring centralizer in the middle of the 1st joint and one at 88'. Cement to surface with 250 sks class 'G' with ½ #/sk celloflake and 2% CaCl2 (1.15 cf/sk, 15.8 ppg). Perform top job as necessary. This string may be set with a rat-hole machine prior to moving on the drilling rig.

9 5/8" Surface Casing String: Run casing with swirl pattern guide shoe on bottom and non-differential fill float collar one joint from bottom. Centralize with one centralizer in the middle of the first joint, one centralizer every other collar for the next three collars, and one centralizer inside the conductor casing shoe. Cement to surface with 550 sks 65/35 poz + 6% gel + 6 #/sk gilsonite + .25 #/sk celloflake (12.8 ppg, 1.75 cf/sk), followed by 100 sks class 'G' + 2% CaCl2 (15.8 ppg, 1.15 cf/sk).

5 ½" Production Casing String: Run casing with float shoe on bottom, float collar one joint from bottom. Install one centralizer in the middle of the first joint, one on every other collar from TD to the top of the Honaker Trail formation, and one inside the surface casing shoe. Cement with



575 sks 25/75 Poz TXI blend (11.8 ppg, 1.74 cf/sk) followed with 300 sks LiteCrete + gas block (12.5 ppg, 1.61 cf/sk) Top of cement calculated to be at 1500'.

Special Drilling Operations:

None anticipated

Additional Information:

- This well is designed to be completed in the Pennsylvanian formations.
- Bottom-hole pressure is calculated to be 2515 psi at 5590', 0.45 psi/ft. Adequate weighting material will be kept on location to maintain mud weight.
- LCM will be added to the mud system as required to maintain circulation.

• Estimated formation pressures:

Ismay 2515 psiDesert Creek 2621 psi

Completion Information:

The completion procedure will be prepared after cased-hole logs are analyzed. The well will be completed by frac and acid treatments.

Prepared by: Robert R. Griffee

Operations Manager

Date: 8/24/07

Dragon State # 1-13 Thirteen Point Surface Use Plan

1) Existing Roads

- a) The proposed route to the location is shown on the attached Topographical Map.
- b) The well pad is located approximately 2 miles North of Eastland Township, Utah.
- c) If necessary, an encroachment permit will be obtained from San Juan County, Utah for use of the existing county roads (CR #312, & CR #338). Approximately 1 mile of CR #312 and 1/2 mile of CR #338, will be used to access the well site.

2) Access Road

- a) Approximately 660' of flat bladed road off CR #338 provides access to the well site.
- b) No cattle guards will be required.
- c) There are no existing roads outside the lease or unit boundary for which a right-of-way is required.

b) Location of existing wells

See attached Topographical Map for the location of existing wells in the area of this proposed well site.

c) Location of Production Facilities

- a. In the event the well is brought to production, necessary production equipment will be determined and a diagram will be submitted showing the layout of such equipment on the location site.
- b. Off-site facilities: No off-site facilities are required.
- c. Pipelines: Pipeline design, construction, and permitting will be performed if needed after it is determined that the well is productive.

All permanent (in place for six months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows: <u>Juniper Green.</u>

All site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed.

If a gas meter run is constructed it will be located on the lease within 500 feet of the well head. The gas flow line will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and /or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

If a tank battery is constructed on this lease, it will be surrounded by a berm of sufficient capacity to contain 1 ½ times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurement shall conform to the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 4.

Production facilities on location may include a lined or unlined production water pit as specified. If water is produced from the well an OOGO #7 application must be submitted.

d) Location and Type of Water Supply

All water needed for drilling and completion purposes will be obtained from the City of Monticello, Utah (SW 1/4, Section 30, T33S, R24E.).

e) Source of Construction Material

It is not anticipated that additional construction materials will be required for construction of the well pad, pit, and access road for drilling operations. Gravel and rock for upgrading the access roads to Class III Standards will be obtained from a private source, if needed. If additional materials are required, they will be obtained from a private source. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

f) Methods of Handling Waste Water Disposal

All garbage and trash materials will be contained in a trash cage and removed from the site for proper disposal as necessary, but no later than at the conclusion of drilling operations. Portable toilets will be provided and serviced appropriately.

The first 6 inches of top soil will be removed, stockpiled along the Northern edge of the well pad and reserved for reclamation. The drill pad is approximately 300' x 300'. The reserve pit is in the Southeast corner of the drill pad and is approximately 150' x 75' x 10' with 3:1 slopes. Upon inspection, the reserve will be re-lined if necessary. Three sides of the reserve pit will be fenced prior to drilling operations and the fourth side of the pit will be fenced when drilling operations cease. The fence will be constructed using 32" woven wire topped with two smooth wire strands 4" and 16" above the woven wire. Steel T-posts will be set 16.5' apart and two stays will be used between the posts. Corner posts will be

2' H Posts or more and anchored. The fence will be kept in repair while the pit dries. It is anticipated 2-3 days will be needed to dress up the well pad, reserve pit and access. No new surface disturbance is anticipated. The reserve pit is located in the cut, with 100% of the pit volume being below the original ground level. Wildlife protection, consisting of appropriate netting, will be used to cover the reserve pit.

g) Ancillary Facilities

N/A

h) Well Site Layout

All existing wells in the vicinity of this well pad are shown on the attached Topographical Map. Access to the well pad will be shown on the Topographical Map.

i) Plans for Restoration of the Surface

The top 6 inches of topsoil material will be removed from the location and stockpiled separately on the north side of the pad.

Immediately upon completion of drilling, all equipment that is not necessary for production will be removed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

All road surfaces will be removed prior to the rehabilitation of roads.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be re-contoured to replicate the natural slope.

The stockpiled topsoil will be evenly distributed over the disturbed area.

In the event the well is abandoned an abandonment marker will be place below ground level. The marker will supply the operator name, lease number, well name and surveyed description (township, range, section and either quarter-quarter or footages).

11) Surface and Mineral Ownership

The surface is Fee and the minerals are owned by the State of Utah.

12) Other Information

a) Archaeological Concerns: None

If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and will contact the authorized officer (AO). Within five (5) working days, the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that the mitigation is appropriate.
- If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide the technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will be allowed to resume construction.
- b) Threatened and Endangered Species Concerns: No known concerns.
- c) Wildlife Seasonal Restrictions (yes/no): Deer Winter Range December 15 April 30.
- d) Off Location Geophysical Testing: N/A
- e) Drainage crossing that require additional State or Federal approval: N/A
- f) Other: Anticipated spud date, October 15, 2007.

Donal W. Key

Surface Operations

August 27, 2007

CONTACT LIST

Utah Projects

CrownQuest Operating, LLC
303 Veterans Airpark Ln
P.O. Box 53310
Midland, Texas 79710
Tommy Lent, PE, Vice President-Operations & Engineering
432-818-0300

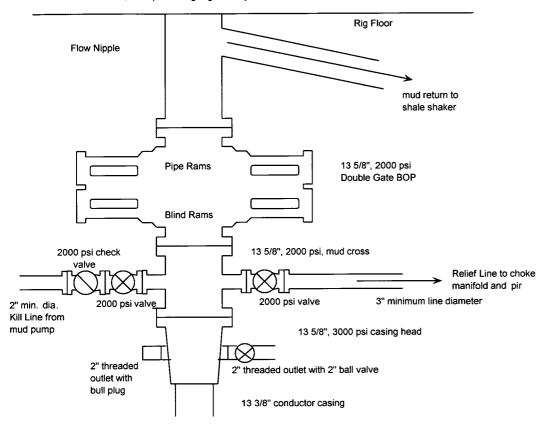
CrownQuest Operating, LLC
P.O. Box 2221 * 2600 Farmington Ave.
Farmington, NM 87499
Robert R. Griffee, PE, Operations Manager & CQ Agent
505-326-6813
Fax: 505-326-6814
Donal Key, Surface Operations

505-716-2543 Fax: 505-326-6814

Basin Surveying, Inc P.O. Box 6456 Farmington, NM 87499 108 Llano, Aztec NM 87410 John D. Wayne, P.L.S. 505-334-1500 Fax: 505-334-1498

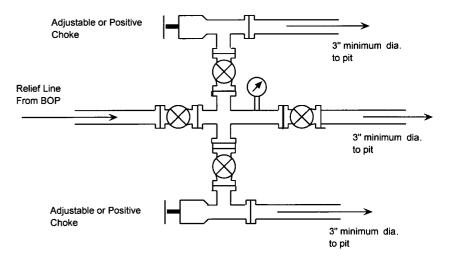
Figure 1

13 5/8", 2000 psi Drilling Rig BOP System - for Surface Hole



BOP Installation from Conductor Casing depth (150') to Intermediate Casing depth (2200'). 13 5/8", 2000 psi double gate BOP equipped with blind and pipe rams. All equipment rated at 2000 psi or greater working pressure.

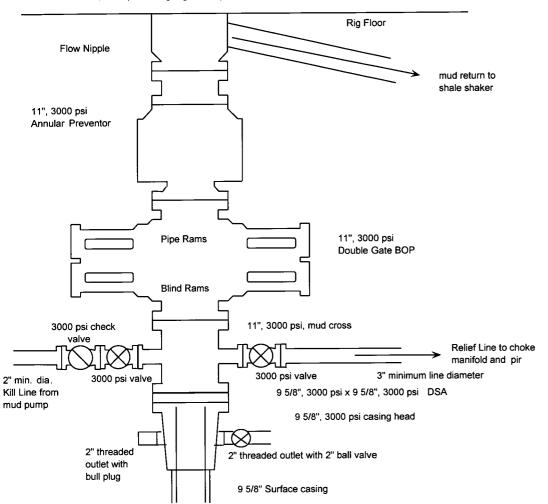
Figure 2



Choke manifold for BOP system shown in Figure 1. All equipment to be rated at 2000 psi or greater.

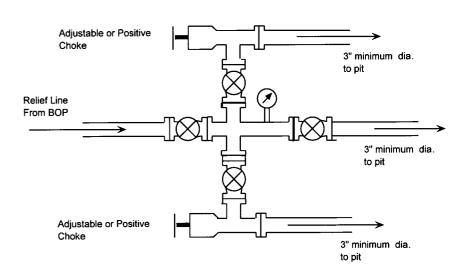
Figure 3

11", 3000 psi Drilling Rig BOP System



BOP Installation from Surface Casing depth (2200') to TD (5920'). 11", 3000 psi double gate BOP equipped with blind and pipe rams, 11" Annular BOP. All equipment rated at 3000 psi or greater working pressure.

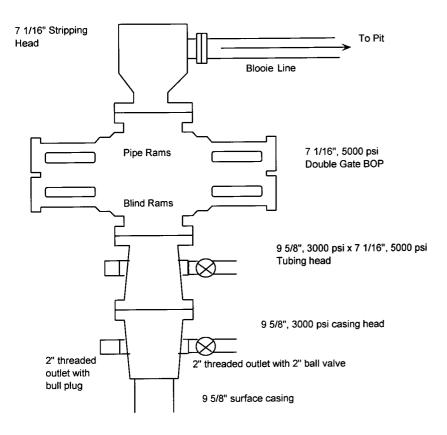
Figure 4



Choke manifold for BOP system shown in Figure 3. All equipment to be rated at 3000 psi or greater.

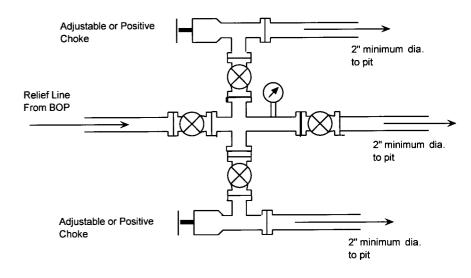
Figure 5

7 1/16", 5000 psi Completion Rig BOP System

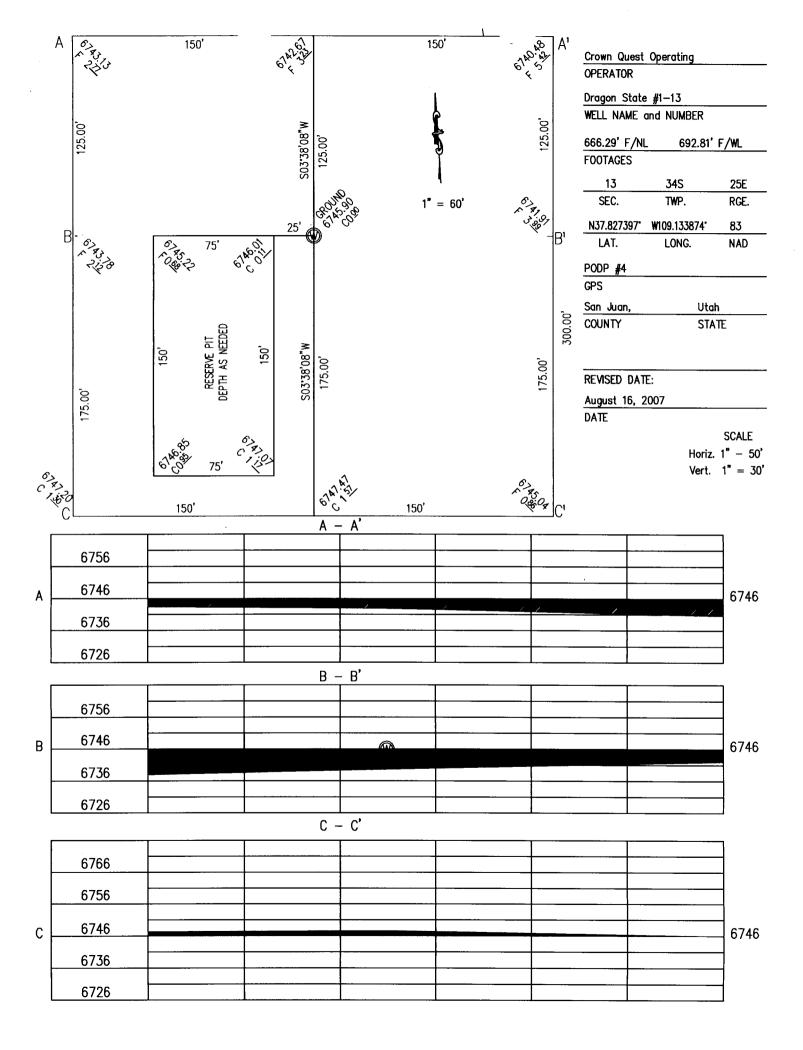


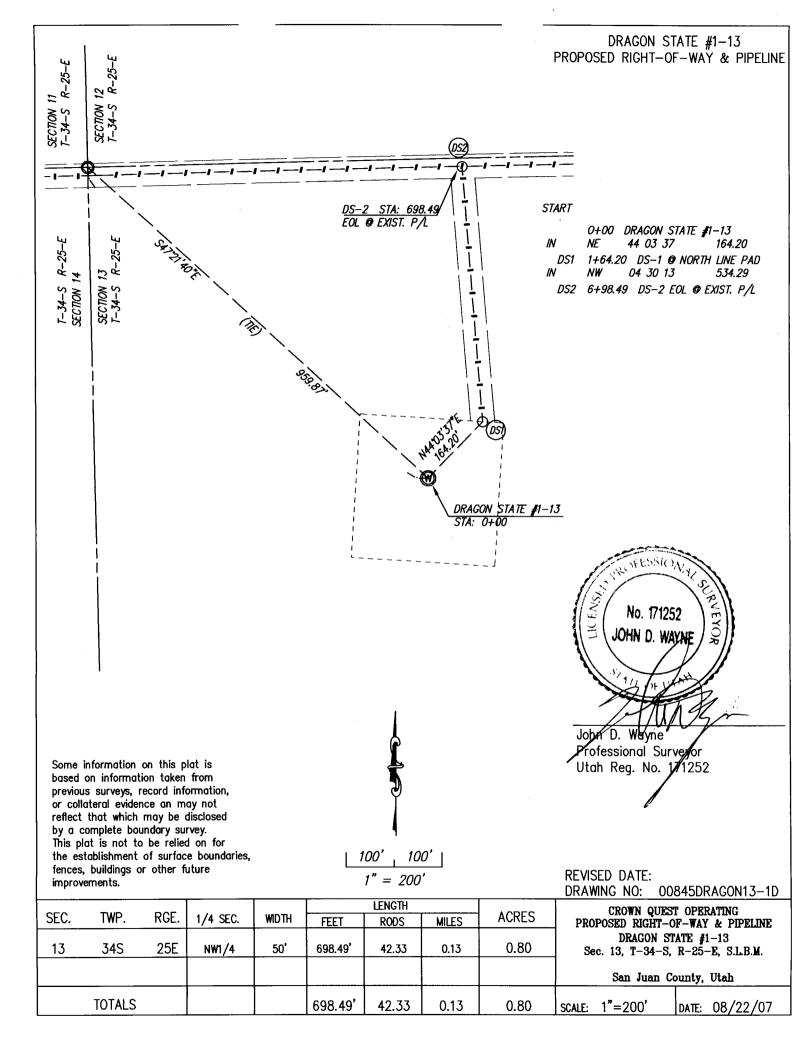
BOP Installation for Completion operations. 7 1/16", 5000 psi double gate BOP equipped with blind and pipe rams. All equipment rated at 5000 psi or greater working pressure.

Figure 6



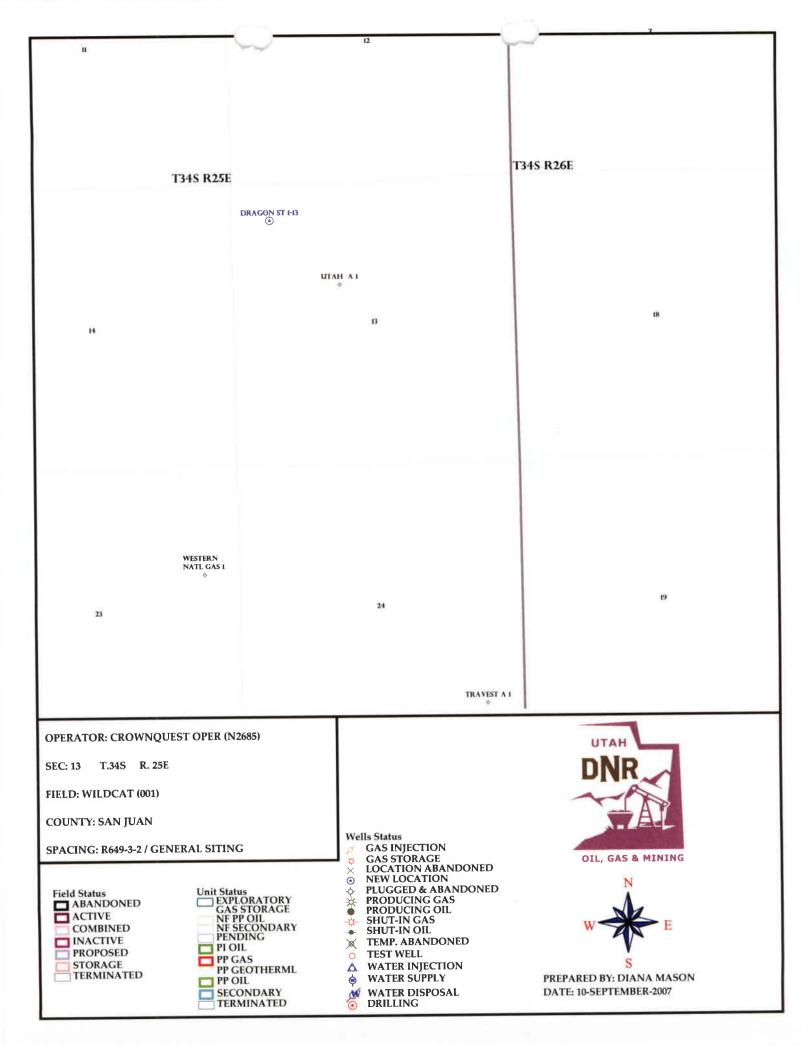
Choke manifold for BOP system shown in Figure 5. All equipment to be rated at 5000 psi or greater.





WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVE	D: 08/31/2007		API NO. ASSIGNED: 43-037-31869						
OPERATOR:	DRAGON ST 1-13 CROWNQUEST OPERATING, (N2685) ROBERT GRIFFEE		PHONE NUMBER:	505-325-575	50				
PROPOSED LO			INSPECT LOCATN	BY: /	/				
WSW NWNW	13 340S 250E		Tech Review	Initials	Date				
	0666 FNL 0693 FWL 0666 FNL 0693 FWL		Engineering	DUD	11/21/07				
COUNTY:	SAN JUAN		Geology	W.	7-0,				
	37.82734 LONGITUDE: -109.1330	0.6	Surface						
	EASTINGS: 664310 NORTHINGS: 41880 ME: WILDCAT (1								
SURFACE OWN	ID/OR REVIEWED:	LOCATI	PROPOSED FORMA! COALBED METHANI ION AND SITING:		-Λ·				
(No. Potas N oil S Water (No. PRDCC (Dat	Fed[] Ind[] Sta[] Fee[] RLB0007554	Unit:	R649-2-3. R649-3-2. Gener Siting: 460 From Qf R649-3-3. Excep Drilling Unit Board Cause No: Eff Date: Siting: R649-3-11. Dire	tion					
COMMENTS: _	Mercis Prop	U (09	1-24-07)						
STIPULATION	1. Spacing St Z- Statemen 3-5-4-ce Cog	ip WT of Cont	- Basis Stup						



Application for Permit to Drill Statement of Basis

11/21/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No

API WellNo

Status

Well Type GW

Surf Ownr

CBM

537

43-037-31869-00-00

S

No

Operator

CROWNQUEST OPERATING, LLC

Surface Owner-APD

Unit

Well Name DRAGON ST 1-13

UNDESIGNATED Field

Type of Work

Location

NWNW 13 34S 25E S

666 FNL 693 FWL GPS Coord (UTM) 664310E 4188096N

Geologic Statement of Basis

Significant volumes of high quality ground water are likely to be encountered at this location. A moderately permeable soil is likely to be developed on Quaternary eolian loess surface deposits in the area. A thin Mancos shale fringe may be encountered below the loess, otherwise the relatively thin Dakota Sandstone/Burro Canyon Formation and thicker subjacent Morrison Formation will be drilled near the surface. Several nearby water supply wells that are documented in the Division of Water Rights database reveal that the water table was encountered between 120 and 170 feet of depth, most likely in the Dakota Sandstone. Nine underground sources of water have been filed on within a mile. The base of moderately saline ground water in a nearby well was determined to be at about 3,850' of elevation, which corresponds to the Moenkopi Formation at around 2,900' TD according to the geologic prognosis. It is likely that fresh water may also be found in the Morrison Formation, the Entrada Sandstone, and the Navajo Sandstone. The proposed drilling, casing and cementing program should adequately isolate any zones of fresh water that may be penetrated. A benign mud system is proposed.

Chris Kierst

11/7/2007

APD Evaluator

Date / Time

Surface Statement of Basis

On-site evaluation completed September 24, 2007, attending: Bart Kettle-Division of Oil, Gas and Mining (DOGM), Ed Bonner-Trust Lands Administration (SITLA), Kyle Beagley-Division of Wildlife Resources (DWR), Donal Key-CrownQuest Operating, LLC

Reserve pit requires a liner to prevent migration of materials into shallow high quality water zones commonly found within the project area. A fence will be required around the reserve pit to prevent entrance and entrapment of livestock and wildlife.

Bart Kettle

9/24/2007

Onsite Evaluator

Date / Time

Conditions of Approval / Application for Permit to Drill

Category

Condition

Pits

A synthetic liner with a minimum thickness of 16 mils shall be properly installed and

maintained in the reserve pit.

Surface

The reserve pit shall be fenced upon completion of drilling operations.

UN-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator

CROWNQUEST OPERATING, LLC

Well Name

DRAGON ST 1-13

API Number

43-037-31869-0

APD No 537

Field/Unit UNDESIGNATED

Location: 1/4.1/4 NWNW

Sec 13

Tw 34S

Rng 25E 666 FN

666 FNL 693 FWL

GPS Coord (UTM)

Surface Owner

Participants

Bart Kettle-Division of Oil, Gas and Mining (DOGM), Ed Bonner-Trust Lands Administration (SITLA), Kyle Beagley-Division of Wildlife Resources (DWR), Donal Key-CrownQuest Operating, LLC

Regional/Local Setting & Topography

Proposed project location is ~10 miles east of Monticello, San Juan County, Utah. The immediate area surrounding the proposed well is a mixture of CRP and dry land agriculture fields. Project is staked on fee surface owned by Robert Christensen of St. Geroge. Access to this well will be along existing County maintained roads and approximately 660' of upgraded two track access across lands currently held by Mr. Christensen. Regionally the project site is located along the eastern edge of the Canyon lands portion or the Colorado Plateau. Topography is a series of large mesas cut by sandstone outcrops and narrow canyons. Drainage is to the southwest entering Montezuma Creek within 15 miles. Locally a majority of the surface is being used for dry land farming or CRP pastures.

Surface Use Plan

Current Surface Use

Grazing

Agricultural

Wildlfe Habitat

New Road

Miles

Well Pad

Src Const Material

Surface Formation

0.1

Width 250

Length 300

Onsite

DKTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Dry land field in fallow

Soil Type and Characteristics

Deep orange loam mancos mixture

Erosion Issues

N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required IN

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? N Cultural Resources? N

Reserve Pit

Site-Specific Factors		Site I	Ranking	
Distance to Groundwater (feet)	100 to 200		5	
Distance to Surface Water (feet)	>1000		0	
Dist. Nearest Municipal Well (ft)	>5280		0	
Distance to Other Wells (feet)	>1320		0	
Native Soil Type	Mod permeability		10	
Fluid Type	Fresh Water		5	
Drill Cuttings	Salt or Detrimental		10	
Annual Precipitation (inches)	10 to 20		5	
Affected Populations	<10		0	
Presence Nearby Utility Conduits	Not Present		0	
		Final Score	35	1 Sensitivity Level

Characteristics / Requirements

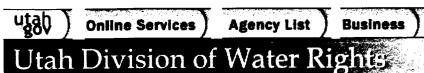
Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? N

Other Observations / Comments

Proposed project stacked in the center of 40 acre parcel currently being farmed in a dry land rotation. Surface owner is Robert Christensen contacted via phone calls and e-mail. Per conversation with Mr. Christensen no comments concerning DOGM permitting process or surface resource concerns pertaining to permitting. Concerns revolving around Surface Use Agreement mainly stemming from damage compensation amounts and salt contamination from well fluids.

Bart Kettle 9/24/2007 **Evaluator Date / Time**

11/7/2007 Page 2



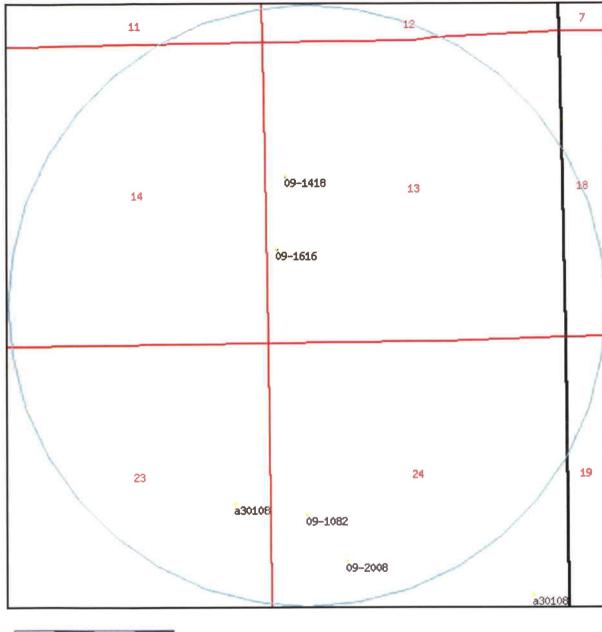


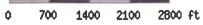
WRPLAT Program Output Listing

Version: 2007.04.13.01

Rundate: 11/07/2007 11:41 AM

Radius search of 5280 feet from a point N666 E693 from the SW corner, section 13, Township 34S, Range 25E, SL b&m Criteria:wrtypes=W,C,E podtypes=S,U,Sp status=U,A,P usetypes=all





Water Rights

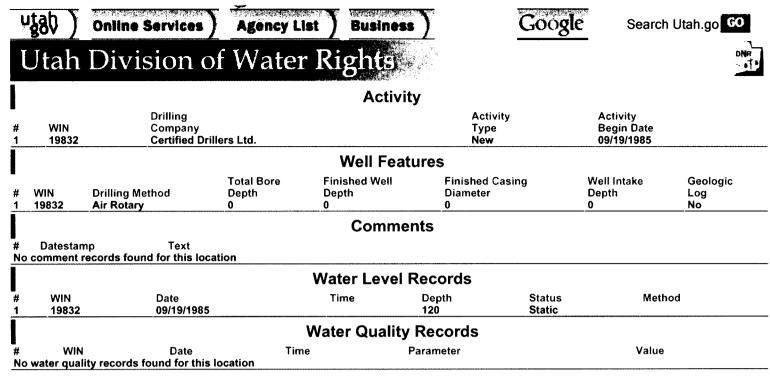
WR Number	Diversion Type/Location	Well Log	Status	Priority U	Jses (CFS ACF	Owner Name		
09-1082	Underground		A	19781012 Г	OS (0.015 0.000	JAMES L. & FRANCIS L. ROGERS		
	S360 E635 W4 24 34S 25E SL						EAST ROUTE		
09-1418	1 Indermound	well info	P	19850402 Г	OIS (0.007 0.000	RACHEL M. RICHARDON		
	N300 E350 W4 13 34S 25E SL						EAST ROUTE		
<u>09-1616</u>	Linderground	well info	P	19881116 Г	OS (0.015 0.000	JAMES N. BARRY	Í	
	N1600 W2480 S4 13 34S 25E SL						EAST ROUTE		
09-2008	Underground		Α	19990201 Г	OIS (0.000 4.730	LA VIDA DULCE		
	N1475 E1305 SW 24 34S 25E SL						P.O. BOX 1116		
09-2163	Underground		Α	20050418 N	M (0.000 100.0	00 EASTLAND SPECIAL SERVICE DISTRICT		
	S152 W628 E4 23 34S 25E SL						HC 63 BOX 52		
09-2163	Underground		A	20050418 N	М (0.000 100.0	00 EASTLAND SPECIAL SERVICE DISTRICT		
	N785 W660 SE 24 34S 25E SL						HC 63 BOX 52	(
09-400	Underground		P	19340723 I	os (0.067 0.000	EASTLAND SPECIAL SERVICE DISTRICT		
	N785 W660 SE 24 34S 25E SL						HC 63 BOX 52		
<u>a30108</u>	Underground		A	20050418 N	M (0.000 14.60	EASTLAND SPECIAL SERVICE DISTRICT		
	S152 W628 E4 23 34S 25E SL						HC 63 BOX 52		
<u>a30108</u>	Underground		Α	20050418 N	М (0.000 14.60	EASTLAND SPECIAL SERVICE DISTRICT		
	N785 W660 SE 24 34S						HC 63 BOX 52		
http://utstnrv	vrt6.waterrights.utah.gov/cgi	-bin/map	serv.ex	e				11/07/2007	

25E SL

Natural Resources | Contact | Disclaimer | Privacy Policy | Accessibility Policy

11/07/2007

Done

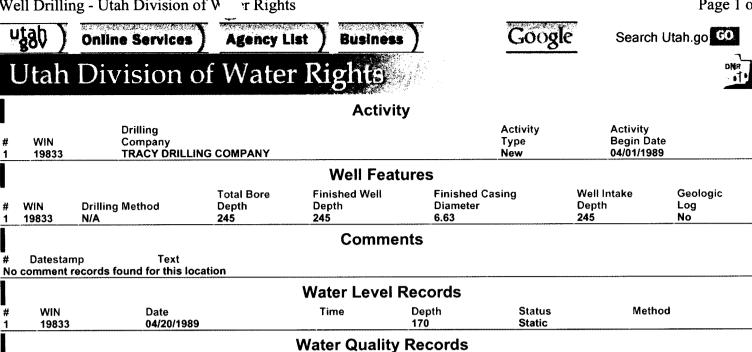


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View Well Log

Date

No water quality records found for this location



View Well Log

Time

Done

Value

Natural Resources | Contact | Disclaimer | Privacy Policy | Accessibility Policy

Parameter

STATE ACTIONS

Resource Development Coordinating Committee Public Lands Policy Coordination Office

5110 State Office Building SLC, UT 84114

Phone No	. 537-9230
1. State Agency	2. Approximate date project will start:
Oil, Gas and Mining	Linear Approved or Sentember 25, 2007
1594 West North Temple, Suite 1210	Upon Approval or September 25, 2007
Salt Lake City, UT 84114-5801	
3. Title of proposed action:	
Application for Permit to Drill	
4. Description of Project:	
CrownOuest Operating, LLC proposes to dril	1 the Dragon State 1-13 well (wildcat) on State lease
ML-47967, San Juan County, Utah. This action	is being presented to the RDCC for consideration of
resource issues affecting state interests. The Div	ision of Oil, Gas and Mining is the primary
administrative agency in this action and must issu	ue approval before operations commence.
5. Location and detailed map of land affected (site	e location map required, electronic GIS map
preferred)	c location map required, executions of the samp
(include UTM coordinates where possible) (indicate)	ate county)
666' FNL 693' FWL, NW	
Section 13, Township 34 South, R	ange 25 East, San Juan County, Utah
6. Possible significant impacts likely to occur:	
Surface impacts include up to five acres of su	arface disturbance during the drilling and completion
phase (estimated for five weeks duration). If oil	and gas in commercial quantities is discovered, the
location will be reclaimed back to a net disturbar	nce of between one and two acres – not including
road pipeline or utility infrastructure. If no oil	or gas is discovered, the location will be completely
reclaimed.	
7. Identify local government affected	
a. Has the government been contacted? No.	
b. When?	
c. What was the response?	
d. If no response, how is the local government	t(s) likely to be impacted?
u. If no response, now is the local governmen	i(s) fixely to be impacted.
8. For acquisitions of land or interests in land by	DWR or State Parks please identify state
representative and state senator for the project a	rea. Name and phone number of state
representative, state senator near project site, if	
a. Has the representative and senator been con	
•	
9. Areawide clearinghouse(s) receiving state action	on: (to be sent out by agency in block 1)
Southeastern Utah Association of Gove	ernments
10. For further information, contact:	11. Signature and title of authorized officer
	11
	Mil The
7. 7.	
Diana Mason	Gil Hunt, Associate Director
Phone: (801) 538-5312	Date: September 11, 2007

FORM 3

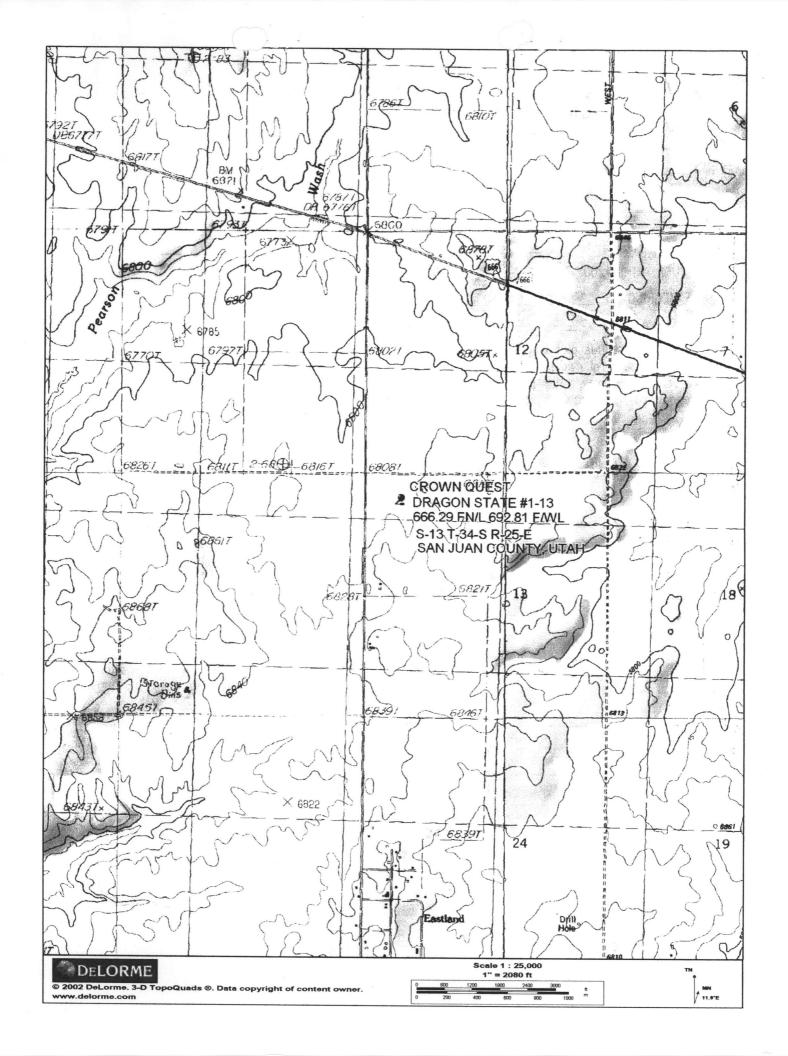
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT (highlight changes)

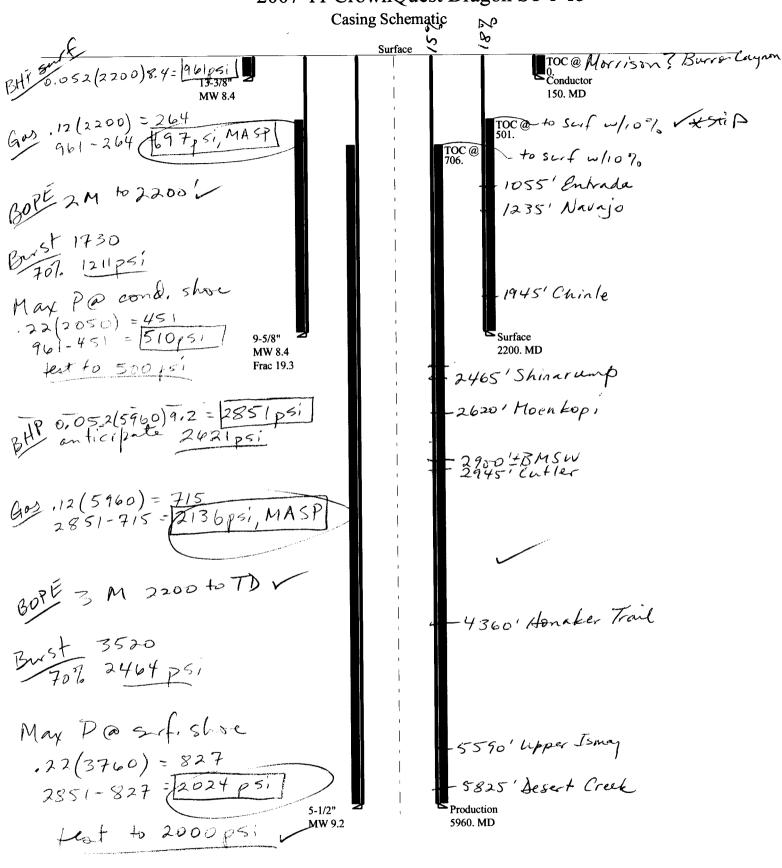
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10 PROPOSED DEPTH 10 PROPOSED DEPTH 5,960 RLB 0007554 21 ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC): 22 APPROXIMATE DATE WORK WILL START: 21 ESTIMATED DURATION: 60 days 24 PROPOSED CASING AND CEMENTING PROGRAM 25 ESTIMATED DURATION: 60 days 26 FROLE 27 PROPOSED CASING AND CEMENTING PROGRAM 27 IS EVEN TO BE COMMENTED FROM THE PROPOSED CASING AND CEMENTING PROGRAM 28 ESTIMATED DURATION: 60 days 29 PROPOSED CASING AND CEMENTING PROGRAM 29 FROM 13 3/8" H40 48 150 class 'G', 250 sks 1.15 cf/sk 15.8 ppg 10 1/4" 9 5/8" J55 36 2,200 65/35 Poz, 550 sks 1.75 cf/sk 12.8 ppg 11 2 1/4" 9 5/8" J55 36 2,200 65/35 Poz, 550 sks 1.75 cf/sk 15.8 ppg 12 1/4" 9 5/8" J55 36 2,200 65/35 Poz, 550 sks 1.75 cf/sk 15.8 ppg 17 7/8" 5 1/2" P110 17 5,900 25/75 Poz, 575 sks 1.74 cf/sk 11.8 ppg 25 ATTACHMENTS 26 VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES 27 WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER 28 EVICENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER 19 PROPOSED DEPTH 29 EXAMPLE PLAN OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER 20 CHARLES PRINT) ROBERT R. GRIFTS APPROVAL FOR USE OF WATER 10 PROPOSED DEPTH 21 PROPOSED SETTIME TO BE S		NEAREST PROPE	ERTY OR LEASE	LINE (FEET)	16. NUMBER OF	FACRES IN LEA		17. N	UMBER OF ACRES ASSIGNED	
1839' 21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC): 22. APPROXIMATE DATE WORK WILL START: 23. ESTIMATED DURATION: 60 days 24. PROPOSED CASING AND CEMENTING PROGRAM 25. ESTIMATED FROM: 12. ASSING SIZE, GRADE, AND WEIGHT PER POOT 15. SETTING DEPTH 16" 13.3/8" 140 48 150 168.35 Poz, 550 sks 1.75 cf/sk 12.8 ppg 12.1/4" 9.5/8" 15.8 ppg 12.1/2" P110 17 5.980 25/75 Poz, 575 sks 1.74 cf/sk 11.8 ppg 12.5 ATTACHMENTS 25. ATTACHMENTS 26. SATTACHMENTS 27. COMPLETE DRILLING PLAN 28. EVENIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAHOLI AND GAS CONSERVATION GENERAL RULES. 29. WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER 29. EVIDENCE OF DIMISION OF WATER RIGHTS APPROVAL FOR USE OF WATER 10. PORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER 10. APPROVAL: 10. APPROVAL: 10. APPROVAL: 10. Date: 1 - 21 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -				IPLETED, OR	19. PROPOSED	DEPTH:		20. B	OND DESCRIPTION:	
PROPOSED CASING AND CEMENTING PROGRAM 24. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE CASING SIZE, GRADE, AND WEIGHT PER FOOT SETTING DEPTH CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT 16" 13 3/8" H40 48 150 class 'G', 250 sks 1.15 cf/sk 15.8 ppg 12 1/4" 9 5/8" J55 36 2,200 65/35 Poz, 550 sks 1.75 cf/sk 12.8 ppg 17 7/8" 5 1/2" P110 17 5,920 25/75 Poz, 575 sks 1.74 cf/sk 11.8 ppg 25. ATTACHMENTS VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES: WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER AMME (PLEASE PRINT) Robert R. Griffee SIGNATURE DATE APPROVAL: Date: 1 - 21 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -		ON THIS LEASE	(FEET)				5,960	RI	_B 0007554	
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16"	24.			PROPOS	SED CASING AI	ND CEMEN	TING PROGRAM			
12 1/4" 9 5/8" J55 36 2,200 65/35 Poz, 550 sks 1.75 cf/sk 12.8 ppg class 'G', 100 sks 1.15 cf/sk 15.8 ppg 7 7/8" 5 1/2" P110 17 5,220 25/75 Poz, 575 sks 1.74 cf/sk 11.8 ppg LiteCrete, 300 sks 1.61 cf/sk 12.5 ppg 25. ATTACHMENTS Verify the Following are attached in accordance with the utah oil and gas conservation general rules: Well plat or map prepared by licensed surveyor or engineer Levidence of division of water rights approval for use of water MAME (Please PRINT) Robert R. Griffee TITLE Operations Manager In Operations Manager Approved by the Utah Division of Oil, Gas and Mining Approved by the Utah Division of Oil, Gas and Mining Approved Date: 1 - 21 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	SIZE OF HOLE	CASING SIZE, G	SRADE, AND WE	IGHT PER FOOT	SETTING DEPTH	,	CEMENT TYPE, QU	ANTITY,	YIELD, AND SLURRY WEIGH	т
Class 'G', 100 sks 1.15 cf/sk 15.8 ppg	16"	13 3/8"	H40	48	150	class 'G',	250 sks	1.15	5 cf/sk 15.8 pp	g
25. ATTACHMENTS VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES. WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER NAME (PLEASE PRINT) Robert R. Griffee TITLE Operations Manager SIGNATURE Approved by the Utah Division of Oil, Gas and Mining APPROVAL: Date: 1 - 21 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	12 1/4"	9 5/8"	J55	36	2,200	65/35 Po	z, 550 sks	1.75	cf/sk 12.8 pp	g
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25. ATTACHMENTS VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES: WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER NAME (PLEASE PRINT) Robert R. Griffee SIGNATURE SIGNATURE SIGNATURE APPROVAL: APPROVAL: ATTACHMENTS COMPLETE DRILLING PLAN FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER APPROVAL: APPROVAL: Date: 11 - 21 - 0 - 1 - 21 - 0 - 1 - 21 - 0 - 21	7 7/8"	5 1/2"	P110	17	5,920	25/75 Po	z, 575 sks	1.74	cf/sk 11.8 pp	g
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NAME (PLEASE PRINT) Robert R. Griffee SIGNATURE Robert R. Griffee DATE Manager 8/24/2007 Approved by the Utah Division of Oil, Gas and Mining APPROVAL: Date: 11-21-07	_							.DOON 6	OD COMPANY OTHER THAN	FUE 1 EASE OVANIED
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(This space for State use only) Approved by the Utah Division of Oil, Gas and Mining APPROVAL: Date: 11 - 21 - 07	NAME (PLEASE	Robert	R. Griffee			TITL	E Operations Ma	anage	er	
APPROVAL: Utah Division of Oil, Gas and Mining APPROVAL: Date: 11-21-07	SIGNATURE	Robert	2.00			DAT	_E 8/24/2007			
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UTAH WELL LOCATION PLAT

	OPERATOR	Crov	vn Quest	Operating	10 1-10							_	1
	LEASE	Draç	jon State	;				WELL NO.	_1	-13		_	
	SECTION	13		TOWNSHIP	34	South	RANGE	<u>25 Ea</u>	st	_ Salt	Lake,	P.M.	
	COUNTY	San	Juan				UTAH						
	FOOTAGE	LOCATION (OF WELL:	660	5.29'	FEET FROM	THE	North	LINE	and			
				69:	2.81'	FEET FROM	THE	West	LINE	and			Y
	GROUND L	EVEL ELEV	ATION:	674	5.90'				·a.			_	
	SURFACE	use within	200' RA	ADIUS:	No	<u>Improvemen</u>	ts Withi	n 200'		 			•
	BASIS OF	BEARING:	<u>GPS</u>	Data								-	500' 500'
	BASIS OF	ELEVATION:	<u> </u>	GPS Data -	- NAD 8	3 - PODP	# 4				~,	_	1" = 1000'
				t is based							i	4	GLO BC
				ence and m This plat is							се	8	WELL Location
	boundaries	s, fences, b	ouildings,	or other fu	ture imp	rovements.							STONE Marked
												Φ	ALUMINUM CAP
	N 88°40)'47" E (I	Field) 2	658.01'	AC.								CALCULATED CORNEL
5276.08'	692.81'	666.29	N=37.8 <u>2</u> W=109.1. - — —	- 11/10/00	133S 12 13 R25E)	 			well was actu supe true knov are 200	location prepare all surve ervision, and coviedge and no visib	show d from y by and to rrect and be this	hat the proposed wn on this plat m field notes of an me or under my that the same is to the best of my elief, and that there provements within proposed wellhead, erwise.
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2007-11 CrownQuest Dragon ST 1-13



Alequate Dro 11/21/07

2007-11 CrownQuest Dragon ST 1-13 Well name:

CrownQuest Operating, LLC Operator:

Conductor Project ID: String type: 43-037-31869

San Juan County Location:

Design parameters:

Minimum design factors: **Environment:**

Collapse 8.400 ppg Mud weight: Design is based on evacuated pipe.

Collapse: Design factor 1.125 H2S considered?

Non-directional string.

No 75 °F Surface temperature: 77 °F Bottom hole temperature: 1.40 °F/100ft Temperature gradient:

Minimum section length: 1,500 ft

Burst:

Design factor 1.00 Cement top:

Surface

Burst

Max anticipated surface

pressure: 47 psi 0.120 psi/ft Internal gradient:

Calculated BHP 65 psi

No backup mud specified.

Tension:

1.80 (J) 8 Round STC: 1.80 (J) 8 Round LTC: **Buttress:** 1.60 (J)

1.50 (J) Premium: 1.50 (B) Body yield:

Tension is based on buoyed weight. Neutral point: 132 ft

Run Seq	Segment Length (ft) 150	Size (in) 13.375	Nominal Weight (lbs/ft) 48.00	Grade H-40	End Finish ST&C	True Vert Depth (ft) 150	Measured Depth (ft) 150	Drift Diameter (in) 12.59	Internal Capacity (ft³) 132.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	65	740	11.306	65	1730	26.43	6	322	50.99 J

Helen Sadik-Macdonald Prepared Div of Oil, Gas & Minerals by:

Phone: 801-538-5357 FAX: 801-359-3940

Date: November 16,2007 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 150 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

2007-11 CrownQuest Dragon ST 1-13 Well name:

CrownQuest Operating, LLC Operator:

Surface Project ID: String type:

San Juan County Location:

43-037-31869

Design parameters:

Collapse Mud weight: 8,400 ppg Design is based on evacuated pipe.

Minimum design factors: Collapse:

Design factor

1.125

Environment: H2S considered?

75 °F Surface temperature: 106 °F Bottom hole temperature: 1.40 °F/100ft Temperature gradient:

Minimum section length:

250 ft

Burst:

Design factor 1.00 Cement top:

501 ft

No

Burst

Max anticipated surface

pressure: 1,936 psi 0.120 psi/ft Internal gradient: Calculated BHP 2,200 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J) 1.80 (J) 8 Round LTC: **Buttress:** 1.60 (J) 1.50 (J) Premium:

1.50 (B) Body yield:

Tension is based on buoyed weight. Neutral point: 1,926 ft

Non-directional string.

Re subsequent strings:

Injection pressure:

Next setting depth: 5,960 ft Next mud weight: 9.200 ppg Next setting BHP: 2,848 psi Fracture mud wt: 19.250 ppg 2,200 ft Fracture depth: 2,200 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2200	9.625	36.00	J-55	LT&C	2200	2200	8.796	954.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	960	2020	2.105	2200	3520	1.60	69	453	6.53 J

Helen Sadik-Macdonald Prepared Div of Oil, Gas & Minerals by:

Phone: 801-538-5357 FAX: 801-359-3940

Date: November 16,2007 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name: 2007-11 CrownQuest Dragon ST 1-13

Operator: CrownQuest Operating, LLC

String type: Production Project ID: 43-037-31869

Location: San Juan County

Design parameters: Collapse

Mud weight: 9.200 ppg
Design is based on evacuated pipe.

Minimum design factors:

<u>Collapse:</u> Design factor

1.125

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 158 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Burst:

Design factor 1.00

Cement top:

Non-directional string.

706 ft

<u>Burst</u>

Max anticipated surface

pressure: 1,537 psi Internal gradient: 0.220 psi/ft Calculated BHP 2,848 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) Buttress: 1.60 (J) Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on buoyed weight. Neutral point: 5,129 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	5960	5.5	17.00	P-110	LT&C	5960	5960	4.767	777.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2848	7480	2.626	2848	10640	3.74	87	445	5.10 J

Prepared Helen Sadik-Macdonald by: Div of Oil, Gas & Minerals

Phone: 801-538-5357 FAX: 801-359-3940 Date: November 16,2007 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5960 ft, a mud weight of 9.2 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

From:

Robert Clark Mason, Diana

To: Date:

9/17/2007 10:24 AM

Subject:

RDCC short turn-around comments

CC:

Anderson, Tad: Mcneill, Dave; Wright, Carolyn

The following comments are submitted on short turn-around items RDCC #8425 through RDCC #8432.

RDCC #8425, Comments begin: The Petro-Canada Resources (USA), Inc. proposal to drill the State 32-11 wildcat well, in Emery County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm. Comments end.

RDCC #8426, Comments begin: The CrownQuest Operating, LLC proposal to drill the Raider 1-17 wildcat well, in San Juan County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

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RDCC #8427, Comments begin: The CrownQuest Operating, LLC proposal to drill the Dragon State 1-13 wildcat well, in San Juan County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

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RDCC #8428, Comments begin: The CrownQuest Operating, LLC proposal to drill the Banana Slug Federal 1-8 wildcat well, in San Juan County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing

vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.qov/publicat/code/r307/r307.htm. **Comments end.**

RDCC #8429, Comments begin: The CrownQuest Operating, LLC proposal to drill the Anteater State 1-21 wildcat well, in San Juan County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm. **Comments end.**

RDCC #8430, Comments begin: The CrownQuest Operating, LLC proposal to drill the Chanticleer State 1-32 wildcat well, in San Juan County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm. Comments end.

RDCC #8431, Comments begin: The CrownQuest Operating, LLC proposal to drill the Explorer State 1-16 wildcat well, in San Juan County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm. Comments end.

RDCC #8432, Comments begin: The Delta Petroleum Corporation proposal to drill the Greentown State #31-362216 wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm. Comments end.

Robert Clark Division of Air Quality 801-536-4435



CROWNQUEST OPERATING, LLC

Date: 10/31/07

To Whom It May Concern:

Re: Dragon State # 1-13 Section 13, T34S, R25E San Juan County, Utah

This letter is to certify CrownQuest Operating, LLC has in hand a signed Surface Agreement from Mr. & Mrs. Robert E Christensen, HC 63, 116 North 1160 West, Saint George, Utah 84770. Mr. & Mrs. Christensen are the surface owners of the above referenced well. A copy of the Surface Use Plan, location plat and map, as submitted in the APD, has been sent to Mr. & Mrs. Richardson.

Please attach this certification to the APD and proceed with processing our request for the permit. If you need additional information, please contact: Donal Key, at the above address or at donalkey@msn.com. Ph: 505-716-2543.

Sincerely,

Donal Key

Surface Operations

NOV 0 5 2007

DIV. OF OIL, GAS & MINING



State L. Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA Division Director

November 21, 2007

CrownQuest Operating, LLC P O Box 2221 Farmington, NM 87499

Re:

Dragon State 1-13 Well, 666' FNL, 693' FWL, NW NW, Sec. 13, T. 34 South, R. 25 East,

San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31869.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

San Juan County Assessor

SITLA



Operator:		CrownQuest Operating, LLC					
Well Name & Number_		Dragon State 1-13					
API Number:		43-037-31869					
Lease:		ML 47967	41.00				
Location: NW NW_	Sec. 13	T. 34 South	R. 25 East				

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to spudding the well contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well contact Dustin Doucet
- Any changes to the approved drilling plan contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

Dan Jarvis at: (801) 538-5338 office
Carol Daniels at: (801) 538-5284 office

• Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 6. The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review.
- 7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
- 8. Surface casing shall be cemented to the surface.



Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA

Division Director

February 2, 2009

CrownQuest Operating, LLC P.O. BOX 2221 Farmington, NM 87499

Re:

<u>APD Rescinded – Dragon State 1-13, Sec.13, T.34S, R. 25E</u> San Juan County, Utah API No. 43-037-31869

Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on November 21, 2007. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective February 2, 2009.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

Environmental Scientist

cc:

Well File

SITLA, Ed Bonner

